

Environmental Protection Agency

Pt. 63, Subpt. QQQQ, Table 4

For the following device . . .	You must meet the following operating limit . . .	And you must demonstrate continuous compliance with the operating limit by . . .
4. Condenser .....	<p>b. The temperature of the carbon bed, after completing each regeneration and any cooling cycle, must not exceed the carbon bed temperature limit established according to § 63.4767(c).</p> <p>a. The average condenser outlet (product side) gas temperature in any 3-hour period must not exceed the temperature limit established according to § 63.4767(d).</p>	<p>i. Measuring the temperature of the carbon bed, after completing each regeneration and any cooling cycle, according to § 63.4768(d); and</p> <p>ii. Operating and carbon beds such that each carbon bed is not returned to service until completing each regeneration and any cooling cycle until the recorded temperature of the carbon bed is at or below the temperature limit.</p> <p>i. Collecting the condenser outlet (product side) gas temperature according to § 63.4768(e);</p> <p>ii. Reducing the data to 3-hour block averages; and</p> <p>iii. Maintaining the 3-hour block average gas temperature at the outlet at or below the temperature limit.</p>
5. Emission capture system that is a PTE according to § 63.4765(a).	<p>a. The direction of the air flow at all times must be into the enclosure; and either.</p>	<p>i. Collecting the direction of the air flow; and either the facial velocity of air through all natural draft openings according to § 63.4768(g)(1) or the pressure drop across the enclosure according to § 63.4768(g)(2); and</p> <p>ii. Maintaining the facial velocity of air flow through all natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit, and maintaining the direction of air flow into the enclosure at all times.</p> <p>i. See items 5.a.i and 5.a.ii.</p>
6. Emission capture system that is not a PTE according to § 63.4765(a).	<p>b. The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or</p> <p>c. The pressure drop across the enclosure must be at least 0.007 inch H<sub>2</sub>O, as established in Method 204 of appendix M to 40 CFR part 51.</p> <p>a. The average gas volumetric flow rate or duct static pressure in each duct between a capture device and add-on control device inlet in any 3-hour period must not fall below the average volumetric flow rate or duct static pressure limit established for that capture device according to § 63.4767(f).</p>	<p>i. See items 5.a.i and 5.a.ii.</p> <p>i. Collecting the gas volumetric flow gas or duct static pressure for each capture device according to § 63.4768(g);</p> <p>ii. Reducing the data to 3-hour block averages; and</p> <p>iii. Maintaining the 3-hour block average gas volumetric flow rate or duct static pressure for each capture device at or above the gas volumetric flow rate or duct static pressure limit</p>
7. Concentrators, including zeolite wheels and rotary carbon absorbers.	<p>The average gas temperature of the desorption concentrate stream in any 3-hour period must not fall below the limit established according to § 63.4767(e); and</p> <p>b. The average pressure drop of the dilute stream across the concentrator in any 3-hour period must not exceed the limit established according to § 63.4767(e).</p>	<p>i. Collecting the temperature data according to § 63.4768(f);</p> <p>ii. Reducing the data to 3-hour block averages; and</p> <p>iii. Maintaining the 3-hour block average temperature at or above the temperature limit.</p> <p>i. Collecting the pressure drop data according to § 63.4768(f); and</p> <p>ii. Reducing the pressure drop data to 3-hour block averages; and</p> <p>iii. Maintaining the 3-hour block average pressure drop at or below at the pressure drop limit.</p>

TABLE 4 TO SUBPART QQQQ OF PART 63—APPLICABILITY OF GENERAL PROVISIONS TO SUBPART QQQQ OF PART 63

You must comply with the applicable General Provisions requirements according to the following table:

Citation	Subject	Applicable to subpart QQQQ	Explanation
§ 63.1(a)(1)–(14) .....	General Applicability .....	Yes.	

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Citation	Subject	Applicable to subpart QQQQ	Explanation
§ 63.1(b)(1)–(3) .....	Initial Applicability Determination.	Yes .....	Applicability to subpart QQQQ is also specified in § 63.4681.
§ 63.1(c)(1) .....	Applicability After Standard Established.	Yes.	
§ 63.1(c)(2)–(3) .....	Applicability of Permit Program for Area Sources.	No .....	
§ 63.1(c)(4)–(5) .....	Extensions and Notifications ...	Yes.	Area sources are not subject to subpart QQQQ.
§ 63.1(e) .....	Applicability of Permit Program Before Relevant Standard is Set.	Yes.	
§ 63.2 .....	Definitions .....	Yes .....	
§ 63.3(a)–(c) .....	Units and Abbreviations .....	Yes.	Additional definitions are specified in § 63.4781.
§ 63.4(a)(1)–(5) .....	Prohibited Activities .....	Yes.	
§ 63.4(b)–(c) .....	Circumvention/Severability .....	Yes.	
§ 63.5(a) .....	Construction/Reconstruction ...	Yes.	
§ 63.5(b)(1)–(6) .....	Requirements for Existing, Newly Constructed, and Reconstructed Sources.	Yes.	
§ 63.5(d) .....	Application for Approval of Construction/Reconstruction.	Yes.	
§ 63.5(e) .....	Approval of Construction/Reconstruction.	Yes.	
§ 63.5(f) .....	Approval of Construction/Reconstruction Based on Prior State Review.	Yes.	
§ 63.6(a) .....	Compliance With Standards and Maintenance Requirements—Applicability.	Yes.	
§ 63.6(b)(1)–(7) .....	Compliance Dates for New and Reconstructed Sources.	Yes .....	§ 63.4683 specifies the compliance dates.
§ 63.6(c)(1)–(5) .....	Compliance Dates for Existing Sources.	Yes .....	§ 63.4683 specifies the compliance dates.
§ 63.6(e)(1)–(2) .....	Operation and Maintenance ....	Yes.	Only sources using an add-on control device to comply with the standard must complete SSMP.
§ 63.6(e)(3) .....	SSMP .....	Yes .....	
§ 63.6(f)(1) .....	Compliance Except During SSM.	Yes .....	
§ 63.6(f)(2)–(3) .....	Methods for Determining Compliance.	Yes.	Subpart QQQQ does not establish opacity standards and does not require continuous opacity monitoring systems (COMS).
§ 63.6(g)(1)–(3) .....	Use of an Alternative Standard	Yes.	
§ 63.6(h) .....	Compliance With Opacity/Visible Emission Standards.	No .....	
§ 63.6(i)(1)–(16) .....	Extension of Compliance .....	Yes.	
§ 63.6(j) .....	Presidential Compliance Exemption.	Yes.	
§ 63.7(a)(1) .....	Performance Test Requirements—Applicability.	Yes .....	
§ 63.7(a)(2) .....	Performance Test Requirements—Dates.	Yes .....	Applies only to performance tests for capture system and control device efficiency at sources using these to comply with the standard. § 63.4760 specifies the schedule for performance test requirements that are earlier than those specified in § 63.7(a)(2).
§ 63.7(a)(3) .....	Performance Tests Required By the Administrator.	Yes.	Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standard.
§ 63.7(b)–(e) .....	Performance Test Requirements—Notification, Quality Assurance, Facilities Necessary for Safe Testing, Conditions During Test.	Yes .....	
§ 63.7(f) .....	Performance Test Requirements—Use of Alternative Test Method.	Yes .....	
§ 63.7(g)–(h) .....	Performance Test Requirements—Data Analysis, Recordkeeping, Reporting, Waiver of Test.	Yes .....	Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standard.

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Citation	Subject	Applicable to subpart QQQQ	Explanation
§ 63.8(a)(1)–(3) .....	Monitoring Requirements—Ap- plicability.	Yes .....	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional requirements for monitoring are specified in § 63.4768.
§ 63.8(a)(4) .....	Additional Monitoring Require- ments.	No .....	Subpart QQQQ does not have monitoring re- quirements for flares.
§ 63.8(b) .....	Conduct of Monitoring .....	Yes.	
§ 63.8(c)(1)–(3) .....	Continuous Monitoring System (CMS) Operation and Main- tenance.	Yes .....	Applies only to monitoring of capture system and add-on control device efficiency at sources using these to comply with the standard. Additional requirements for CMS operations and maintenance are specified in § 63.4768.
§ 63.8(c)(4) .....	CMSs .....	No .....	§ 63.4768 specifies the requirements for the op- eration of CMS for capture systems and add- on control devices at sources using these to comply.
§ 63.8(c)(5) .....	COMS .....	No .....	Subpart QQQQ does not have opacity for visible emission standards.
§ 63.8(c)(6) .....	CMS Requirements .....	No .....	§ 63.4768 specifies the requirements for moni- toring systems for capture systems and add-on control devices at sources using these to com- ply.
§ 63.8(c)(7) .....	CMS Out-of-Control Periods ...	Yes.	
§ 63.8(c)(8) .....	CMS Out-of-Control Periods Reporting.	No .....	§ 63.4720 requires reporting of CMS out-of-con- trol periods.
§ 63.8(d)–(e) .....	Quality Control Program and CMS Performance Evalua- tion.	No .....	Subpart QQQQ does not require the use of con- tinuous emissions monitoring systems.
§ 63.8(f)(1)–(5) .....	Use of an Alternative Moni- toring Method.	Yes.	
§ 63.8(f)(6) .....	Alternative to Relative Accu- racy Test.	No .....	Subpart QQQQ does not require the use of con- tinuous emissions monitoring systems.
§ 63.8(g)(1)–(5) .....	Data Reduction .....	No .....	§§ 63.4767 and 63.4768 specify monitoring data reduction.
§ 63.9(a)–(d) .....	Notification Requirements .....	Yes.	
§ 63.9(e) .....	Notification of Performance Test.	Yes .....	Applies only to capture system and add-on con- trol device performance tests at sources using these to comply with the standard.
§ 63.9(f) .....	Notification of Visible Emis- sions/Opacity Test.	No .....	Subpart QQQQ does not have opacity or visible emission standards.
§ 63.9(g)(1)–(3) .....	Additional Notifications When Using CMS.	No .....	Subpart QQQQ does require the use of contin- uous emissions monitoring systems.
§ 63.9(h) .....	Notification of Compliance Sta- tus.	Yes .....	§ 63.4710 specifies the dates for submitting the notification of compliance status.
§ 63.9(i) .....	Adjustment of Submittal Dead- lines.	Yes.	
§ 63.9(j) .....	Change in Previous Informa- tion.	Yes.	
§ 63.10(a) .....	Recordkeeping/Reporting—Ap- plicability and General Informa- tion.	Yes.	
§ 63.10(b)(1) .....	General Recordkeeping Re- quirements.	Yes .....	Additional requirements are specified in §§ 63.4730 and 63.4731.
§ 63.10(b)(2)(i)–(v) .....	Recordkeeping Relevant to SSM Periods and CMS.	Yes .....	Requirements for SSM records only apply to add-on control devices used to comply with the standard.
§ 63.10(b)(2)(vi)–(xi) .....	.....	Yes.	
§ 63.10(b)(2)(xii) .....	Records .....	Yes.	
§ 63.10(b)(2)(xiii) .....	.....	No .....	Subpart QQQQ does not require the use of con- tinuous emissions monitoring systems.
§ 63.10(b)(2)(xiv) .....	.....	Yes.	
§ 63.10(b)(3) .....	Recordkeeping Requirements for Applicability Determina- tions.	Yes.	
§ 63.10(c)(1)–(6) .....	Additional Recordkeeping Re- quirements for Sources with CMS.	Yes.	
§ 63.10(c)(7)–(8) .....	.....	No .....	The same records are required in § 63.4720(a) (7).
§ 63.10(c)(9)–(15) .....	.....	Yes.	

Citation	Subject	Applicable to subpart QQQQ	Explanation
§ 63.10(d)(1) .....	General Reporting Requirements.	Yes .....	Additional requirements are specified in § 63.4720.
§ 63.10(d)(2) .....	Report of Performance Test Results.	Yes .....	Additional requirements are specified in § 63.4720(b).
§ 63.10(d)(3) .....	Reporting Opacity or Visible Emissions Observations.	No .....	Subpart QQQQ does not require opacity or visible emissions observations.
§ 63.10(d)(4) .....	Progress Reports for Sources With Compliance Extensions.	Yes.	
§ 63.10(d)(5) .....	SSM Reports .....	Yes .....	Applies only to add-on control devices at sources using these to comply with the standard.
§ 63.10(e)(1)–(2) .....	Additional CMS Reports .....	No .....	Subpart QQQQ does not require the use of continuous emissions monitoring systems.
§ 63.10(e)(3) .....	Excess Emissions/CMS Performance Reports.	No .....	§ 63.4720(b) specifies the contents of periodic compliance reports.
§ 63.10(e)(4) .....	COMS Data Reports .....	No .....	Subpart QQQQ does not specify requirements for opacity or COMS.
§ 63.10(f) .....	Recordkeeping/Reporting Waiver.	Yes.	
§ 63.11 .....	Control Device Requirements/Flares.	No .....	Subpart QQQQ does not specify use of flares for compliance.
§ 63.12 .....	State Authority and Delegations.	Yes.	
§ 63.13 .....	Addresses .....	Yes.	
§ 63.14 .....	Incorporation by Reference .....	Yes .....	Test Methods ANSI/ASME PTC 19.10–1981, Part 10, ASTM D2697–86 (Reapproved 1998), and ASTM D6093–97 (incorporated by reference, see § 63.14).
§ 63.15 .....	Availability of Information/Confidentiality.	Yes.	

TABLE 5 TO SUBPART QQQQ OF PART 63—DEFAULT ORGANIC HAP MASS FRACTION FOR SOLVENTS AND SOLVENT BLENDS

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data.

Solvent/solvent blend	CAS. No.	Average organic HAP mass fraction	Typical organic HAP, percent by mass
1. Toluene .....	108–88–3	1.0	Toluene.
2. Xylene(s) .....	1330–20–7	1.0	Xylenes, ethylbenzene.
3. Hexane .....	110–54–3	0.5	n-hexane.
4. n-Hexane .....	110–54–3	1.0	n-hexane.
5. Ethylbenzene .....	100–41–4	1.0	Ethylbenzene.
6. Aliphatic 140 .....	.....	0	None.
7. Aromatic 100 .....	.....	0.02	1% xylene, 1% cumene.
8. Aromatic 150 .....	.....	0.09	Naphthalene.
9. Aromatic naphtha .....	64742–95–6	0.02	1% xylene, 1% cumene.
10. Aromatic solvent .....	64742–94–5	0.1	Naphthalene.
11. Exempt mineral spirits .....	8032–32–4	0	None.
12. Lignoines (VM & P) .....	8032–32–4	0	None.
13. Lactol spirits .....	64742–89–6	0.15	Toluene.
14. Low aromatic white spirit .....	64742–82–1	0	None.
15. Mineral spirits .....	64742–88–7	0.01	Xylenes.
16. Hydrotreated naphtha .....	64742–48–9	0	None.
17. Hydrotreated light distillate .....	64742–47–8	0.001	Toluene.
18. Stoddard solvent .....	8052–41–3	0.01	Xylenes.
19. Super high-flash naphtha .....	64742–95–6	0.05	Xylenes.
20. Varsol® solvent .....	8052–49–3	0.01	0.5% xylenes, 0.5% ethylbenzene.
21. VM & P naphtha .....	64742–89–8	0.06	3% toluene, 3% xylene.
22. Petroleum distillate mixture .....	68477–31–6	0.08	4% naphthalene, 4% biphenyl.

TABLE 6 TO SUBPART QQQQ OF PART 63—DEFAULT ORGANIC HAP MASS FRACTION FOR PETROLEUM SOLVENT GROUPS <sup>A</sup>

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data.